ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 09/804,733B

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics
Wrapped Aminos

The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length

The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino
Numbering

The numbering under each 5ᵗʰ amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII

The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length

Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0
"bug"

A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences
(OLD RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
  (i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences
(NEW RULES)

Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's
(NEW RULES)

Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 _____ Invalid <213>
Response

Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220>

Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0
"bug"

Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n

n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

1600

RAW SEQUENCE LISTING

DATE: 12/18/2002

PATENT APPLICATION: US/09/804,733B

TIME: 12:01:59

Input Set : A:\MONS016US.TXT
Output Set: N:\CRF4\12182002\I804733B.raw

```
 2 <110> APPLICANT: WANG et al.
 5 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS
 7 <130> FILE REFERENCE: MONS:016US
 9 <140> CURRENT APPLICATION NUMBER: 09/804,733B
10 <141> CURRENT FILING DATE: 2001-03-13
11 <150> PRIOR APPLICATION NUMBER: 60/188,990
12 <151> PRIOR FILING DATE: 2000-03-13
15 <160> NUMBER OF SEQ ID NOS: 29
17 <170> SOFTWARE: PatentIn version 3.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 5
20 <212> TYPE: PRT
21 <213> ORGANISM: Euthynnus pelamis
24 <220> FEATURE:
25 <221> NAME/KEY: PEPTIDE
26 <222> LOCATION: (1)..(5)
27 <400> SEQUENCE: 1
    Leu Lys Pro Asn Met
    1               5
32 <210> SEQ ID NO: 2
34 <211> LENGTH: 4
35 <212> TYPE: PRT
36 <213> ORGANISM: Euthynnus pelamis
37 <220> FEATURE:
38 <221> NAME/KEY: PEPTIDE
40 <222> LOCATION: (1)..(4)
41 <400> SEQUENCE: 2
44  Lys Pro Asn Met
45  1
47 <210> SEQ ID NO: 3
48 <211> LENGTH: 4
49 <212> TYPE: PRT
50 <213> ORGANISM: Euthynnus pelamis
51 <220> FEATURE:
53 <221> NAME/KEY: PEPTIDE
54 <222> LOCATION: (1)..(4)
56 <400> SEQUENCE: 3
    Val Val Tyr Pro
    1
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 15
63 <212> TYPE: DNA
C--> 64 <213> ORGANISM: Artificial/Unknown
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733B

DATE: ...
TIME: ...

Input Set : A:\MONS016US.TXT
Output Set: N:\CRF4\12182002\I804733B.raw

```
66 <221> FEATURE:
67 <221> NAME/KEY: misc_feature
68 <222> LOCATION: (11)..(15)
69 <223> OTHER INFORMATION: Degenerate sequence
72 <220> FEATURE:
73 <221> NAME/KEY: misc_feature
74 <222> LOCATION: (1)..(15)
75 <223> OTHER INFORMATION: n=a, t, c or g; r=a or g; y=c or t
78 <400> SEQUENCE: 4
79 ctnaarccna ayatg                                                    15
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 60
84 <212> TYPE: DNA
85 <213> ORGANISM: Artificial/Unknown
87 <220> FEATURE:
88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: (1)..(60)
90 <223> OTHER INFORMATION: n=any nucleotide; r=a or g; y=c or t
93 <220> FEATURE:
94 <221> NAME/KEY: misc_feature
95 <222> LOCATION: (1)..(60)
96 <223> OTHER INFORMATION: Degenerate sequence
99 <400> SEQUENCE: 5
100 ctnaarccna ayatgctnaa rccnaayatg ctnaarccna ayatgctnaa rccnaayatg    60
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 60
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial/Unknown
108 <220> FEATURE:
109 <221> NAME/KEY: misc_feature
110 <222> LOCATION: (1)..(60)
111 <223> OTHER INFORMATION: n=any nucleotide, r=a or g, y=c or t
114 <220> FEATURE:
115 <221> NAME/KEY: misc_feature
116 <222> LOCATION: (1)..(60)
117 <223> OTHER INFORMATION: degenerate sequence
120 <400> SEQUENCE: 6
121 catrttnggy ttnagcatrt tnggyttnag catrttnggy ttnagcatrt tnggyttnag    60
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 25
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial/Unknown
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (1)..(25)
132 <223> OTHER INFORMATION: Primer
135 <220> FEATURE:
136 <221> NAME/KEY: misc_feature
137 <222> LOCATION: (1)..(25)
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733B

Input Set : A:\MONS016US.TXT
Output Set: N:\CRF4\12182002\I804733B.raw

```
139 <223> OTHER INFORMATION: n=any nucleotide; r=a or g; y=c or t
141 <400> SEQUENCE: 7
```
W--> 142 aaagaattcc tnaarccnaa yatgc   25
```
145 <210> SEQ ID NO: 8
146 <211> LENGTH: 27
147 <212> TYPE: DNA
```
C--> 148 <213> ORGANISM: Artificial/Unknown
```
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <222> LOCATION: (1)..(27)
153 <223> OTHER INFORMATION: Primer
154 <220> FEATURE:
155 <221> NAME/KEY: misc_feature
156 <222> LOCATION: (1)..(27)
159 <223> OTHER INFORMATION: n=any nucleotide; r=a or g; y=c or t
161 <400> SEQUENCE: 8
```
W--> 163 aaagcggccg ccatrttngg yttnagc   27
```
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 20
168 <212> TYPE: DNA
```
C--> 169 <213> ORGANISM: Artificial/Unknown
```
171 <220> FEATURE:
172 <221> NAME/KEY: misc_feature
173 <222> LOCATION: (1)..(20)
174 <223> OTHER INFORMATION: Primer
177 <400> SEQUENCE: 9
178 tcatacgart cacrataggg                                                       20
181 <210> SEQ ID NO: 10
182 <211> LENGTH: 19
183 <212> TYPE: DNA
```
C--> 184 <213> ORGANISM: Artificial/Unknown
```
186 <220> FEATURE:
187 <221> NAME/KEY: misc_feature
188 <222> LOCATION: (1)..(19)
189 <223> OTHER INFORMATION: Primer
192 <400> SEQUENCE: 10
193 chatnadtia cgagtrgcc                                                        19
196 <210> SEQ ID NO: 11
197 <211> LENGTH: 48
198 <212> TYPE: DNA
```
C--> 199 <213> ORGANISM: Artificial/Unknown
```
201 <220> FEATURE:
202 <221> NAME/KEY: misc_feature
203 <222> LOCATION: (1)..(48)
204 <223> OTHER INFORMATION: n=any nucleotide; y=c or t
207 <220> FEATURE:
208 <221> NAME/KEY: misc_feature
209 <222> LOCATION: (1)..(48)
210 <223> OTHER INFORMATION: Degenerate sequence
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733B

Input Set : A:\MONS016US.TXT
Output Set: N:\CRF4\12182002\I804733B.raw

```
213 <400> SEQUENCE: 11
```
w--> 214 gtngtntayc cngtngtnta yccngtngtn tayccngtng tntayccn   48
```
217 <210> SEQ ID NO: 12
218 <211> LENGTH: 48
219 <212> TYPE: DNA
```
C--> 220 <213> ORGANISM: Artificial/Unknown
```
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <222> LOCATION: (1)..(48)
225 <223> OTHER INFORMATION: n=any nucleotide; r=a or g
226 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
230 <222> LOCATION: (1)..(48)
231 <223> OTHER INFORMATION: Degenerate sequence
234 <400> SEQUENCE: 12
```
v--> 235 nggrtanacn acnggrtana cnacnggrta nacnacnggr tanacnac   48
```
236 <210> SEQ ID NO: 13
239 <211> LENGTH: 33
240 <212> TYPE: DNA
```
C--> 241 <213> ORGANISM: Artificial/Unknown
```
243 <220> FEATURE:
244 <221> NAME/KEY: misc_feature
245 <222> LOCATION: (1)..(33)
246 <223> OTHER INFORMATION: Forward primer
247 <220> FEATURE:
250 <221> NAME/KEY: misc_feature
251 <222> LOCATION: (1)..(33)
254 <223> OTHER INFORMATION: n=any nucleotide; y=c or t
255 <400> SEQUENCE: 13
```
w--> 256 aaaggatccg tngtntaycc ngtngtntay ccn   33
```
258 <210> SEQ ID NO: 14
260 <211> LENGTH: 33
261 <212> TYPE: DNA
```
C--> 262 <213> ORGANISM: Artificial/Unknown
```
264 <220> FEATURE:
265 <221> NAME/KEY: misc_feature
266 <222> LOCATION: (1)..(33)
267 <223> OTHER INFORMATION: Reverse primer
270 <220> FEATURE:
271 <221> NAME/KEY: misc_feature
272 <222> LOCATION: (1)..(33)
275 <223> OTHER INFORMATION: n=any nucleotide; r=a or g
276 <400> SEQUENCE: 14
```
w--> 277 cccaagcttn ggrtanacna cnggrtanac nac   33
```
280 <210> SEQ ID NO: 15
281 <211> LENGTH: 48
282 <212> TYPE: DNA
```
C--> 283 <213> ORGANISM: Artificial/Unknown
```
285 <220> FEATURE:
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733B

DATE: ...
TIME: ...

Input Set : A:\MONS016US.TXT
Output Set : N:\CRF4\12182002\I804733B.raw

```
286 <2..> NAME/KEY: misc_feature
287 <...> LOCATION: (1)..(45)
288 <2..> OTHER INFORMATION: n=any nucleotide
291 <...> FEATURE:
292 <...> NAME/KEY: misc_feature
293 <...> LOCATION: (1)..(45)
294 <...> OTHER INFORMATION: Degenerate sequence
297 <4..> SEQUENCE: 15
```

> 298 gtnccnccng tnccnccngt nccnccngtn ccnccngtnc cnccn   45

```
301 <...> SEQ ID NO: 16
302 <...> LENGTH: 45
303 <...> TYPE: DNA
```

C--> 304 <213> ORGANISM: Artificial/Unknown

```
306 <...> FEATURE:
307 <...> NAME/KEY: misc_feature
308 <...> LOCATION: (1)..(45)
309 <...> OTHER INFORMATION: n=any nucleotide
310 <...> FEATURE:
312 <...> NAME/KEY: misc_feature
314 <...> LOCATION: (1)..(45)
315 <...> OTHER INFORMATION: Degenerate sequence
318 <4..> SEQUENCE: 16
```

> 319 nggnggnacn ggnggnacng gnggnacngg nggnacnggn ggnac   45

```
321 <...> SEQ ID NO: 17
322 <...> LENGTH: 36
324 <...> TYPE: DNA
```

C--> 325 <213> ORGANISM: Artificial/Unknown

```
327 <...> FEATURE:
328 <...> NAME/KEY: misc_feature
329 <...> LOCATION: (1)..(36)
330 <...> OTHER INFORMATION: Forward primer
332 <...> FEATURE:
334 <...> NAME/KEY: misc_feature
335 <...> LOCATION: (1)..(36)
336 <...> OTHER INFORMATION: n=any nucleotide
338 <4..> SEQUENCE: 17
```

> 340 aaaggatccg tnccnccngt nccnccngtn ccnccn   36

```
341 <...> SEQ ID NO: 18
343 <...> LENGTH: 36
345 <...> TYPE: DNA
```

C--> 346 <213> ORGANISM: Artificial/Unknown

```
347 <...> FEATURE:
348 <...> NAME/KEY: misc_feature
350 <...> LOCATION: (1)..(36)
351 <...> OTHER INFORMATION: Reverse primer
353 <...> FEATURE:
355 <...> NAME/KEY: misc_feature
356 <...> LOCATION: (1)..(36)
357 <...> OTHER INFORMATION: n=any nucleotide
```

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/804,733B

Input Set : A:\MONS016US.TXT

Output Set: N:\CRF4\12182002\I804733B.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:4;  N Pos.  3,9
Seq#:5;  N Pos.  3,9,18,24,33,39,48,54
Seq#:6;  N Pos.  7,13,22,28,37,43,52,58
Seq#:7;  N Pos.  12,18
Seq#:8;  N Pos.  18,24
Seq#:11; N Pos.  3,6,12,15,18,24,27,30,36,39,42,48
Seq#:12; N Pos.  1,7,10,13,19,22,25,31,34,37,43,46
Seq#:13; N Pos.  12,15,21,24,27,33
Seq#:14; N Pos.  10,16,19,22,28,31
Seq#:15; N Pos.  3,6,9,12,15,18,21,24,27,30,33,36,39,42,45
Seq#:16; N Pos.  1,4,7,10,13,16,19,22,25,28,31,34,37,40,43
Seq#:17; N Pos.  12,15,18,21,24,27,30,33,36
Seq#:18; N Pos.  10,13,16,19,22,25,28,31,34
Seq#:20; N Pos.  3,6,9,12,15,27,30,33,36,42
Seq#:21; N Pos.  7,13,16,19,22,31,37,40,43,46
Seq#:22; N Pos.  13,16,19,22,28,37,40,43,46,52
Seq#:23; N Pos.  19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
Seq#:25; N Pos.  3,6,9,15,18,21,24,30,39,42,45,51,54,57,60,66
Seq#:26; N Pos.  7,13,16,19,22,26,31,34,43,49,52,55,58,64,67,70
Seq#:27; N Pos.  13,16,19,25,28,31,34,40,49,52,55,61,64,67,70,76
Seq#:28; N Pos.  19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82
```

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/804,733B

DATE: ...
TIME: ...

Input Set : A:\MONS016US.TXT
Output Set: N:\CRF4\12182002\I804733B.raw

L:84 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:85 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:106 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:127 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:148 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:169 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:174 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:189 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:
L:210 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:241 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.: s.:.
L:262 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:283 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:304 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:325 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:346 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:367 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:388 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:394 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:419 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22
L:440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:446 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:23
L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:00
L:469 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24
L:489 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:25
L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:502 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:00
L:508 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:26
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:
L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:00
L:531 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:27
L:546 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:548 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:00

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/804,733B

DATE: ...
TIME: ...

Input Set : **A:\MONS016US.TXT**
Output Set: **N:\CRF4\12182002\I804733B.raw**

L:814 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:869 M:341 W: [46] "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:871 M:341 W: [46] "n" or "Xaa" used, for SEQ ID#:28 after pos.:60
L:877 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:28

12/18/02